GT2 (Zoom, 2020) Issue 11

6. 7.3 + 4.5 =

Add/Sub Decimals

Example A: 7.27 + 2.9 =

<u>Solution</u> :	
7.27 + 2.9 = 10.17	7. 2.18 + 3.32 =
7.27	1. 2.10 + 5.52
$+ 2 \cdot 9 0$	
1 0 . 1 7	

Must show your work as the example above. 8. 7.1 + 5.2 =

1. 1.25 + 9.6 =

9. 9.8 + 2.06 =

2. 7.5 + 3.5 =

10. 7.5 + 8.3 =

3. 4.5 + 7.5 =

4. 8.9 + 8.8 =

Exa	ample B:
3.7	- 2.05 =

		-		<u>ion</u> : 2.05		1.65	
				3	•	7	0
			-	2	•	0	5
5.	7.5 + 3.5 =			1	•	6	5

Must show your work as the example above.

11. 7.5 - 3.14 =	GT2 (Zoom, 2020) Issue 11 18. 5.91 - 1.3 =
12. 5.6 - 4.32 =	19. 6.3 - 3.25 =
13. 8.5 - 6.61 =	20. 6.8 - 5.123 =
14. 8.1 - 1.73 =	Common Denominator Equivalent fractions are fractions that have the same value. Equivalent fractions represent the same portion of an object. If we slice a pie
15. 7.7 - 4.32 =	into two equal pieces, one of the pieces is a half. Instead, if this pie is cut into 4 equal pieces, then two of these pieces is $\frac{2}{4}$ is equal to the size of a half-pie, so $\frac{2}{4} = \frac{1}{2}$.
16. 4.5 - 1.74 =	You can discover more equivalent fractions by multiplying $\frac{2}{2}$, $\frac{3}{3}$, and $\frac{4}{4}$, etc. $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12}$, are called equivalent fractions. Example C: Find the values for <i>a</i> and <i>b</i> : $\frac{1}{3} = \frac{a}{6} = \frac{4}{b}$
17. 4.5 - 3.72 =	a = b = c
	$\frac{Solution:}{\frac{1}{3} = \frac{a}{6} = \frac{4}{b}}$ $3 \times 2 = 6, \text{ so } 1 \times 2 = \underline{2} = \underline{a}$

1×4 = 4, so 3×4 = <u>12 = b</u>	GT2	(Zoom,		$\frac{1}{\frac{a}{21}} = \frac{6}{7} = \frac{24}{b}$
<u> </u>				<i>a</i> =
Example D: Find the values for <i>a</i> and <i>b</i> :	$\frac{3}{4} = \frac{a}{8} =$	$=\frac{18}{b}$		<i>b</i> =
<i>a</i> =				
<i>b</i> =			24.	$\frac{5}{8} = \frac{15}{a} = \frac{b}{40}$
$\frac{Solution}{\frac{3}{4} = \frac{a}{8} = \frac{18}{b}}$				<i>a</i> =
4 8 b 4×2 = 8, so 3×2 = <u>6 = a</u>				<i>b</i> =

 $3 \times 6 = 18$, so $4 \times 6 = \underline{24} = \underline{b}$

<u>Question set</u> [21 - 25]	25.	$\frac{a}{81} =$	$=\frac{2}{9}=$	b 36
Find the values of <i>a</i> and <i>b</i> in each of the				
following questions.		<i>a</i> =		

21. $\frac{2}{7} = \frac{a}{21} = \frac{8}{b}$ *a* = *b* =

22. $\frac{a}{21} = \frac{25}{b} = \frac{5}{7}$

a =

b =

Example E: Compare two fractions using common denominator: $\frac{2}{3}$, $\frac{3}{4}$. $\frac{2}{3} = \frac{1}{10}$ $\begin{pmatrix} 3\\ 3\\ 4 \end{pmatrix} = \frac{1}{10}$

b =

$$\frac{Solution}{\frac{2}{3} = \frac{8}{12}} < \frac{3}{4} = \frac{9}{12}$$

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32. $\frac{5}{12}$ $\bigcirc \frac{3}{4}$

Compare two fractions using common 1 2

denominator:
$$\frac{1}{2}$$
, $\frac{1}{5}$.
 $\frac{1}{2} = \frac{\Box}{\Box}$ \bigcirc $\frac{2}{5} = \frac{\Box}{\Box}$

Example F:

33.
$$\frac{7}{24} \bigcirc \frac{1}{6} = \frac{1}{24}$$

Solution:
$$\frac{1}{2} = \frac{5}{10} > \frac{2}{5} = \frac{4}{10}$$

Must find (the least) common denominator before comparison.

$$34. \ \frac{7}{36} \ \bigcirc \frac{1}{6} = \frac{1}{36}$$

26.
$$\frac{3}{5} = \frac{1}{20}$$
 \bigcirc $\frac{3}{4} = \frac{1}{20}$

35.
$$\frac{1}{12} = \frac{2}{3} \bigcirc \frac{5}{12}$$

27.
$$\frac{4}{6} = \frac{1}{24}$$
 \bigcirc $\frac{5}{8} = \frac{1}{24}$

$$36. \ \frac{1}{24} = \frac{3}{8} \ O\frac{1}{6} = \frac{1}{24}$$

28. $\frac{5}{6} \circ \frac{2}{3} = \frac{1}{6}$

37.
$$\frac{7}{12} \bigcirc \frac{3}{4} = \frac{1}{12}$$

38. $\frac{7}{18}$ O $\frac{5}{6} = \frac{1}{18}$

29. $\frac{5}{9} \circ \frac{2}{3} = \frac{1}{9}$

30. $\frac{6}{9}$ $\bigcirc \frac{1}{3} = \frac{1}{9}$

39.
$$\frac{11}{16} \bigcirc \frac{3}{4} = \frac{1}{16}$$

31. $\frac{5}{8}$ $O\frac{2}{4} = \frac{1}{8}$

40.
$$\frac{1}{12} = \frac{3}{4} \circ O \frac{5}{12}$$

Math Instinct

- 41. Jean, Jim, and Jack are triplet. If the total of their ages is 21, how old are they?
- 47. Molly and Dan had 16 marbles altogether. When they finished playing, Dan said to Molly: "If you give me three of your marbles, we'd both have the same number of marbles."
 - (a) How many marbles did Molly have?
 - (b) How many marbles did Dan have?

- 42. Gerald was 9 years old 5 years ago. If Frank is 12 years old now, who is older?
- 48. Doris spent ²/₃ of her savings on a used car. If she had \$300 left, how much did she originally have in her saving account?
- 43. A puppy eats 6 pounds of food in 24 days. How many days will 12 pounds of food last?
- 44. Twenty-eight children are going on a picnic. If 4 children can ride in one car, how many cars are needed?
- 45. Sally earns a quarter a day helping her mom with the house chores. How many days she needs to work in order to save a total of \$15?
- 46. Steven used 1¹/₂ pound of chocolate to make 40 chocolate chip cookies for his mom's office party. How many pounds of chocolate will he need to make 80 chocolate chip cookies?
 - 5 -Drafted by www.MathEnglish.com

- 49. How many glasses of pineapple juice can be made in 5 min less than 3 hours if it takes 5 minutes to make a glass of pineapple juice?
- 50. Each pie was cut into 6 pieces. There were 306 pieces of pie. How many pies were used?
- 51. Two pencils and an eraser are sold for \$4.00. How much do four pencils and two erasers cost?

M 2

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- 52. Fifty-nine parents came to watch a baseball game. Seventeen left after the fourth inning. Twenty more parents arrived during the sixth inning. How many parents are watching the game at the end of the sixth inning?
- 53. David weighs one hundred sixty-five pounds less than his father. His father weighs two hundred sixty-one pounds. How much does David weigh?

- 57. Albert had two dollars. Albert went to the market and spent 27¢ on plums, 30¢ on apples, and 21¢ on pears. How much money does Albert have left?
- 58. Elizabeth celebrated her birthday with her six best friends. Elizabeth had bought a package of 58 balloons. She gave each of her friends an equal number of balloons. If Elizabeth had four balloons left, how many did each friend get?
- 54. Thirty-six students were divided into four equal groups. How many students were in each group?
- 55. If two pencils and an eraser are sold for \$4.60, and one pencil and two erasers are sold for \$4.10, how much do 6 pencils and 6 erasers cost?
- 56. Greg makes \$15 per hour. Greg worked 1 hour and 32 minutes yesterday and 2 hours and 28 minutes today. How much did Greg earn for working today and yesterday?

- 59. Destiny woke up at 6:30 A.M. and spent 2 minutes to brush her teeth, 9 minutes to eat breakfast, 9 minutes to take a shower, and 20 minutes to read the newspaper. What time was she ready to go to school?
- 60. Divide 1, 2, 3, 4, 5, 6, 7, 8, and 9 into three groups so that each group has three numbers and equal sum.

$\Box + \Box + \Box = \Box$

	A	nswer Kei	J		
1.	10.85	28. $\frac{5}{6} > \frac{4}{6}$	52.	59 - 17 + 2	20 = 62 parents
2.	11	29. $\frac{5}{9} < \frac{2}{3}$	53.	261 - 165 =	= 96
3.	12		54.	$36 \div 4 = 9 s$	tudents
4.	17.7	30. $\frac{6}{9} > \frac{1}{3}$	55.		1 eraser = 4.6
5.	11	31. $\frac{5}{8} > \frac{2}{4}$			2 erasers = 4.1 3 erasers = 8.7
6.	11.8	$32. \frac{5}{12} < \frac{3}{4}$			6 erasers = 0.7
7.	5.5	10 1		\$17.40	
8.	12.3	33. $\frac{7}{18} > \frac{1}{6}$	56.		3 = 4:00 = 4 hours
	11.86	34. $\frac{3}{16} < \frac{1}{6}$		4×15 = \$60	
	15.8 4.36		57.	200 - 27 - 3 \$1.22	30 - 21 = 122 =
	1.28	35. $\frac{2}{3} > \frac{5}{12}$	58	58 - 4 = 54	L
	1.89	36. >	50.	$54 \div 6 = 9 \text{ b}$	
	6.37	37. <	59.	2 + 9 + 9 -	
	3.38	38. <			0 = 6:70 = 7:10
	2.76	39. > 40. >		A.M.	
	0.78		60.	1 + 2 + 3 - 8 + 9 = 45	+4+5+6+7+
	4.61	41. $21 \div 3 = 7$		6 + 9 = 43 $45 \div 3 = 15$	
	3.05	42. $9 + 5 = 14$ (Gerald, older)		1+5+9=	= 15
	1.677	43. $24 \times 2 = 48$ days		2+6+7=	
	6, 28	44. $28 \div 4 = 7$ (cars)		3 + 4 + 8 =	
	15, 35	45. \$15 = 60 quarters 60 days			1, 5, 9
23.	18, 28	46. $1\frac{1}{2} + 1\frac{1}{2} = 3$ lb			2, 6, 7
24.	24, 25	40. $1_2 + 1_2 = 510$ 47. (a) 11 (b) 5			
25.	18, 8	48. $300 \times 3 = 900			3, 4, 8
26.	$\frac{3}{5} = \frac{12}{20} < \frac{3}{4} = \frac{15}{20}$				
	5 20 1 20	49. $175 \div 5 = 35$ glasses			
27.	$\frac{4}{6} = \frac{16}{24} < \frac{5}{8} = \frac{15}{24}$	50. $306 \div 6 = 51$ pies			
		51. $2 \times 4 = $ \$8.00			